DISTRIBUTED POWER GENERATION PLANT AUTOMATED EVENT ASSESSMENT AND MITIGATION PLAN DETERMINATION PROCESS

ABSTRACT OF THE DISCLOSURE

A system is disclosed for detecting predefined events occurring in operating power generation equipment at a customer location and for diagnosing and responding to the predefined events. The system includes a plurality of sensors at the customer location for monitoring the power generation equipment and collecting operating data from the power generation equipment, a monitor at the customer location for analyzing the operating data collected from the power generation equipment and for determining if any of the predefined events occurred during operation of the equipment, a management system at a location different from the customer location for storing and retrieving historical data pertaining to the operation of fleet power generation equipment and to the occurrence of the predefined events in the fleet power generation equipment, an analysis platform for analyzing whether any predefined events have occurred, the analysis platform including a first program resident in the monitor and a second program resident in the management system, and a plurality of coaching tools for using the collected operating data, determinations by the on-site monitor of whether any of the predefined events occurred, and historical data to determine the likely cause of any predefined events that have occurred and an action plan for responding to the events or to predict the consequences of the events and determine preventive action plans in response to the events.